GOODWE

SBP G2 Series

3.6-6kW I Single Phase
AC-coupled retrofit inverter (LV)

The GoodWe SBP G2 Series, is an AC-coupled inverter designed for retrofitting to existing single-phase or three-phase on-grid PV systems, providing an energy storage solution by adding a battery. The inverter is compatible with low-voltage batteries ranging from 40 to 60V such as the GoodWe Lynx Home U Series batttery, allowing surplus electricity to be stored for later use. The integrated plug-and-play features, compact design, and minimal weight provides easy installation, operation, and maintenance. The SBP G2 has the functionality of providing UPS-level switching to back-up mode in less than 10ms, ensuring a stable and reliable power supply.

Smart Control & Monitoring

· <10ms UPS-level switching
· Smart home integration with multi-protocol communications

Friendly & Thoughtful Design

· Plug & Play
· Elegant and compact design

Superb Safety & Reliability

· IP65 ingress protection
· Remote Shutdown

Flexible & Adaptable Applications

· AC-coupled battery storage retrofit solution
· Suitable for both single-phase & three-phase systems

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Technical Data	GW3600-SBP-20	GW5000-SBP-20	GW6000-SBP-20
Battery Input Data			
Battery Type*1	Li-Ion	Li-Ion	Li-Ion
Nominal Battery Voltage (V)	48	48	48
Battery Voltage Range (V)	40 ~ 60	40 ~ 60	40 ~ 60
Max. Continuous Charging Current (A)*1	75	120	120
Max. Continuous Discharging Current (A)*1	75	120	120
Max. Charging Power (W)*1	3600	5000	6000
Max. Discharging Power (W)	3900	5300	6300
AC Output Data (On-grid)			
Nominal Apparent Power Output to Utility Grid (VA)	3680	5000*2	6000*2
Max. Apparent Power Output to Utility Grid (VA)	3680	5000*2	6000*2
Max. Apparent Power from Utility Grid (VA)	7360	10000	10000
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Output Voltage Range (V)	170 ~ 280	170 ~ 280	170 ~ 280
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60
Max. AC Current Output to Utility Grid (A)	16.7	22.7	27.3
Max. AC Current From Utility Grid (A)	33.5	43.5	43.5
Nominal Output Current (A)	16.0	21.7	26.1
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%	<3%	<3%
AC Output Data (Back-up)			
Back-up Nominal Apparent Power (VA)	3680	5000	6000
Max. Output Apparent Power (VA)	3680 (7360@10sec)	5000 (10000@10sec)	6000 (10000@10sec)
Max. Output Current (A)	16.7	22.7	27.3
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Nominal Output Frequency (Hz)	50 / 60	50 / 60	50 / 60
Output THDv (@Linear Load)	<3%	<3%	<3%
Efficiency			
Max. Battery to AC Efficiency	95.5%	95.5%	95.5%
Protection			
Residual Current Monitoring	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated
AC Surge Protection	Type III	Type III	Type III
Remote Shutdown	Integrated	Integrated	Integrated
General Data			
Operating Temperature Range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60
Relative Humidity	0 ~ 95%	0 ~ 95%	0 ~ 95%
Max. Operating Altitude (m)	3000 (>2000 derating)	3000 (>2000 derating)	3000 (>2000 derating)
Cooling Method	Natural Convection	Natural Convection	Natural Convection
User Interface	LED, WLAN + APP	LED, WLAN + APP	LED, WLAN + APP
Communication with BMS	CAN	CAN	CAN
Communication with Meter	RS485	RS485	RS485
Communication with Portal	WiFi / WiFi + LAN / 4G	WiFi / WiFi + LAN / 4G	WiFi / WiFi + LAN / 4G
Weight (kg)	19.2	19.5	19.5
Dimension (W × H × D mm)	505.9 × 434.9 × 154.8	505.9 × 434.9 × 154.8	505.9 × 434.9 × 154.8
Noise Emission (dB)	<30	<30	<30
Topology	Isolated	Isolated	Isolated
Self-consumption at Night (W)	<10	<10	<10
Ingress Protection Rating	IP65	IP65	IP65
Mounting Method	Wall Mounted	Wall Mounted	Wall Mounted
Country of Manufacture	China	China	China

*1: The actual charge and discharge current/power also depends on the battery.
*2: 4600 for VDE-AR-N4105 & NRS 097-2-1.
*: Please visit GoodWe website for the latest certificates.